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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/156,761	09/18/1998	ALEX MATUSEVICH	2925-149P	1477

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EXAMINER

KWOH, JASPER C

ART UNIT	PAPER NUMBER
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2663

DATE MAILED: 02/01/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/156,761

Applicant(s)

MATUSEVICH, ALEX

Examiner

Jasper Kwoh

Art Unit

2663

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 September 1998.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 August 1999 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3. 6) ☐ Other: _____

DETAILED ACTION

Drawings

1. Figures 1-3 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1, 4-5, 8-19 rejected under 35 U.S.C. 102(b) as being clearly anticipated by Kay et al.

4. Regarding claim 1, Kay et al. disclose a radio comprising a modulator that modulates the carrier signal during active time slots (i.e. fig. 5b fi, carrier of the active time slot is modulated) and discontinues modulation during inactive time slots (i.e. fig. 5b fj, col. 8, ll. 6-11, modulation of inactive time slot is turned off); and a transmitter to transmit the carrier signal (fig. 1 is a base station functions by transmitting carrier signals).

5. Regarding claim 4, Kay et al. discloses a system that uses TDMA (i.e. fig. 2 shows that the signals transmitted are TDMA frames).

Art Unit: 2663

6. Regarding claim 5, Kay et al. disclose a method comprising modulating the carrier signal during active time slots (i.e. fig. 5b fi, carrier of the active time slot is modulated); discontinuing modulation during inactive time slots (i.e. fig. 5b fj, col. 8, ll. 6-11, modulation of inactive time slot is turned off); and wirelessly transmitting the carrier signal (fig. 1 is a base station functions by transmitting carrier signals).
7. Regarding claim 8, Kay et al. discloses a system that uses TDMA (i.e. fig. 2 shows that the signals transmitted are TDMA frames).
8. Regarding claim 9, Kay et al disclose a controller (CM) comprising means for providing transmit data (i.e. col. 5, 48-55 control receiving and transmission of radio frequency); means for modulating the carrier signal during active time slots (i.e. fig. 5b fi, carrier of the active time slot is modulated) and discontinuing modulation during inactive time slots (i.e. fig. 5b fj, col. 8, ll. 6-11, modulation of inactive time slot is turned off); and optimally organizing time slot so that each carrier signal has a minimum number of active (fig. 5b; time slots are moved to optimize the carrier signal and each carrier is organized without using excess time slots).
9. Regarding claim 10, Kay et al. discloses the nth time slot of a carrier signal is active and a nth time slot an adjacent carrier signal is inactive (i.e. fig. 5b, where fi has an active time slot, fj has an inactive time slot and fi is adjacent to fj).
10. Regarding claim 11, Kay et al. discloses a system that uses TDMA (i.e. fig. 2 shows that the signals transmitted are TDMA frames).
11. Regarding claim 12, Kay et al disclose a method comprising providing transmit data (i.e. col. 5, 48-55 control receiving and transmission of radio frequency);

designating time slots and modulating the carrier signal during active time slots (i.e. fig. 5b fi, carrier of the active time slot is modulated) and discontinuing modulation during inactive time slots (i.e. fig. 5b fj, col. 8, ll. 6-11, modulation of inactive time slot is turned off); and optimally organizing time slot so that each carrier signal has a minimum number of active (fig. 5b; time slots are moved to optimize the carrier signal and each carrier is organized without using excess time slots).

12. Regarding claim 13, Kay et al. discloses the nth time slot of a carrier signal is active and an nth time slot an adjacent carrier signal is inactive (i.e. fig. 5b, where fi has an active time slot, fj has an inactive time slot and fi is adjacent to fj).

13. Regarding claim 14, Kay et al. discloses a system that uses TDMA (i.e. fig. 2 shows that the signals transmitted are TDMA frames).

14. Regarding claim 15, Kay et al. disclose a article of manufacture comprising a segment for modulating the carrier signal during active time slots (i.e. fig. 5b fi, carrier of the active time slot is modulated); a segment for discontinuing modulation during inactive time slots (i.e. fig. 5b fj, col. 8, ll. 6-11, modulation of inactive time slot is turned off); and a segment for causing the computer to wirelessly transmitting the carrier signal (fig. 1 is a base station functions by transmitting carrier signals). It is inherent that there exist program for the system to perform the function.

15. Regarding claim 16, Kay et al. discloses a system that uses TDMA (i.e. fig. 2 shows that the signals transmitted are TDMA frames).

16. Regarding claim 17, Kay et al. disclose an article of manufacture comprising segment for providing transmit data (i.e. col. 5, 48-55 control receiving and transmission

Art Unit: 2663

of radio frequency); segment for modulating the carrier signal during active time slots (i.e. fig. 5b fi, carrier of the active time slot is modulated) and discontinuing modulation during inactive time slots (i.e. fig. 5b fj, col. 8, ll. 6-11, modulation of inactive time slot is turned off); and segment for optimally organizing time slot so that each carrier signal has a minimum number of active (fig. 5b; time slots are moved to optimize the carrier signal and each carrier is organized without using excess time slots). It is inherent that there exist some sort of program allowing the apparatus to perform the functions.

17. Regarding claim 18, Kay et al. discloses the nth time slot of a carrier signal is active and a nth time slot an adjacent carrier signal is inactive (i.e. fig. 5b, where fi has an active time slot, fj has an inactive time slot and fi is adjacent to fj).

18. Regarding claim 19, Kay et al. discloses a system that uses TDMA (i.e. fig. 2 shows that the signals transmitted are TDMA frames).

Claim Rejections - 35 USC § 103

19. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

20. Claims 2 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kay et al.

21. Kay et al does not specifically disclose that the discontinuation of the modulation occurs gradually over at least a two-symbol time period. However, it would be desirable to control the discontinuing and giving it a bit of time allows the rest of the

Art Unit: 2663

system to respond. Therefore it would have been obvious for an ordinary person skill in the art at the time of the invention to choose discontinuing over at least a two symbol time period with the method and system of Kay et al. in order to change modes without destabilizing the transmitting station.

22. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kay et al in view of applicant admitted prior art (APA).

23. Regarding claim 20, Kay et al. disclose segment for modulating the carrier signal during active time slots (i.e. fig. 5b fi, carrier of the active time slot is modulated) and discontinuing modulation during inactive time slots (i.e. fig. 5b fj, col. 8, ll. 6-11, modulation of inactive time slot is turned off). Kay et al. does not specifically disclose carrier signal with transmit data, sync data and CDL information. However, page 3, lines 21-24 applicant admitted that the carrier frequency signal includes three time slots each including a sync portion, a control and data portion and a CDL portion. Therefore, it would have been obvious to an ordinary person skilled in the art at the time of the invention to include the portions disclosed in APA with the signal embodied in carrier as disclosed in Kay et al. in order for the receiver to maintain synchronization.

Allowable Subject Matter

24. Claims 3 and 7 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

Art Unit: 2663


25. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Nitta is cited to show a power saving mobile data communication system using adapters.

26. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jasper Kwoh whose telephone number is (703) 305-0101. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau Nguyen can be reached on (703) 308-5340. The fax phone numbers for the organization where this application or proceeding is assigned is (703) 872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.


Jasper Kwoh
January 23, 2002



CHAU NGUYEN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600